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"The book is intended as a guide to writing finite element programs in MATLAB and understanding the main steps in a finite element analysis. The book is well written and very easy to read by students The author succeeded in providing a valuable tool to help engineering students learn the main steps of finite element analysis using MATLAB."

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Finite Element Method (FEM) Basics. To summarize, the FEM approach: Represents the original domain of the problem as a collection of elements. For each element, substitutes the original PDE problem by a set of simple equations that locally approximate the original equations. Applies boundary conditions for boundaries of each element.

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